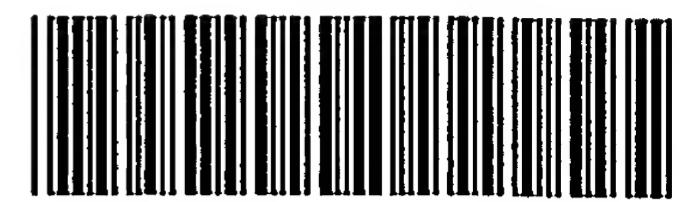# RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/553,884_

Source: _PG/10_

Date Processed by STIC: _11/2/05_

ENTERED

RAW SEQUENCE LISTING   DATE: 11/02/2005
PATENT APPLICATION: US/10/553,884   TIME: 09:44:23

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\11022005\J553884.raw**

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     3 <110> APPLICANT: Agrinomics LLC
     5 <120> TITLE OF INVENTION: GENERATION OF PLANTS WITH ALTERED OIL CONTENT
     7 <130> FILE REFERENCE: 6616-72014-06
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/553,884
C--> 9 <141> CURRENT FILING DATE: 2005-10-20
     9 <150> PRIOR APPLICATION NUMBER: PCT/US2004/012278
    10 <151> PRIOR FILING DATE: 2004-04-19
    12 <150> PRIOR APPLICATION NUMBER: 60/464,558
    13 <151> PRIOR FILING DATE: 2003-04-22
    15 <160> NUMBER OF SEQ ID NOS: 6
    17 <170> SOFTWARE: PatentIn version 3.2
    19 <210> SEQ ID NO: 1
    20 <211> LENGTH: 693
    21 <212> TYPE: DNA
    22 <213> ORGANISM: Arabidopsis thaliana
    24 <400> SEQUENCE: 1
    25 atgccaaaca ctagcagctc tcaaagcttc actatcttcg ttgatggttg gttaatccgt      60
    27 cacaggtatt tcgttgaaca gcttatgtgt gcttcttcct tggatgaaac taatcgtatc     120
    29 tctctcgaag aacaacaatc tctcgtggcc cagtttctat ctcactgtct tcaatactac     180
    31 caagagaaat tcgcctccgt ttccctcgcc ggggacaacg ttttcacttt cttctgccca     240
    33 ccgtggttta actcctacgc taaacttatt ttatgggtcg gcgatttcaa gccttctctt     300
    35 gtgtttaaac tcaccgaggt ctccgtggcc gacctcacgc gccaccagaa agaccggatc     360
    37 tcgagtctta agtcggagac taggaggaaa gagagagaag ttatgcgaga tttcgccctc     420
    39 gtgcaacaaa gcgtggcgga tccgccggtg atgctcgcgg cgaggcgcgt gggagcggtg     480
    41 ggaatggtgg acggagaaga aacggatttg gaggaggcga tggaggtgct taaagctggg     540
    43 atggcggcag cgatgaacaa cgctgatcag ctacggtgtt cgacggtggg gaaagtggtg     600
    45 gagattctta ctccgccgca agcgattaaa gtgttgagga caatcggaca gcttcacctc     660
    47 cgtctgagag acagagacca agaaagagct taa                                  693
    50 <210> SEQ ID NO: 2
    51 <211> LENGTH: 230
    52 <212> TYPE: PRT
    53 <213> ORGANISM: Arabidopsis thaliana
    55 <400> SEQUENCE: 2
    57 Met Pro Asn Thr Ser Ser Ser Gln Ser Phe Thr Ile Phe Val Asp Gly
    58 1               5                   10                  15
    61 Trp Leu Ile Arg His Arg Tyr Phe Val Glu Gln Leu Met Cys Ala Ser
    62             20                  25                  30
    65 Ser Leu Asp Glu Thr Asn Arg Ile Ser Leu Glu Glu Gln Gln Ser Leu
    66         35                  40                  45
    69 Val Ala Gln Phe Leu Ser His Cys Leu Gln Tyr Tyr Gln Glu Lys Phe
    70     50                  55                  60
    73 Ala Ser Val Ser Leu Ala Gly Asp Asn Val Phe Thr Phe Phe Cys Pro
    74 65                  70                  75                  80
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 77 Pro Trp Phe Asn Ser Tyr Ala Lys Leu Ile Leu Trp Val Gly Asp Phe
 78              85                  90                  95
 81 Lys Pro Ser Leu Val Phe Lys Leu Thr Glu Val Ser Val Ala Asp Leu
 82             100                 105                 110
 85 Thr Arg His Gln Lys Asp Arg Ile Ser Ser Leu Lys Ser Glu Thr Arg
 86         115                 120                 125
 89 Arg Lys Glu Arg Glu Val Met Arg Asp Phe Ala Leu Val Gln Gln Ser
 90     130                 135                 140
 93 Val Ala Asp Pro Pro Val Met Leu Ala Ala Arg Arg Val Gly Ala Val
 94 145                 150                 155                 160
 97 Gly Met Val Asp Gly Glu Glu Thr Asp Leu Glu Glu Ala Met Glu Val
 98             165                 170                 175
101 Leu Lys Ala Gly Met Ala Ala Ala Met Asn Asn Ala Asp Gln Leu Arg
102         180                 185                 190
105 Cys Ser Thr Val Gly Lys Val Val Glu Ile Leu Thr Pro Pro Gln Ala
106         195                 200                 205
109 Ile Lys Val Leu Arg Thr Ile Gly Gln Leu His Leu Arg Leu Arg Asp
110     210                 215                 220
113 Arg Asp Gln Glu Arg Ala
114 225                 230
117 <210> SEQ ID NO: 3
118 <211> LENGTH: 1163
119 <212> TYPE: DNA
120 <213> ORGANISM: Arabidopsis thaliana
122 <400> SEQUENCE: 3
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125 gacactgatg agaggaacca gatgtttgaa caaggacttg ttgctgtccc cacagcttct   120
127 gattctagtg acaaatcaag ggacaaacta gatcagaaga cacttcggcg tcttgcccaa   180
129 aatcgtgaag ctgcccggaa aagccgttta cgaaagaagg catacatcca aaaccttgag   240
131 agtagcagat tgaaacttac tcagttagag caagagcttc accagactcg tcaacagggt   300
133 atttttattt ctacatcagg agatcaacct caatcaacaa gcggaaatgg agctttggca   360
135 tttgacatgg agtatgcacg ctggttggaa gagcacaaca aacatgtaaa tgagttgagg   420
137 cttgcagtca atgcacatgc cggtgataat gatctccgtg gtattgttgg tagtgttatg   480
139 gcacactacg atgaattttt caggctcaag ggtgtggcag ctagatcaga tgttttttcat   540
141 gtgctgtctg ggatgtggaa gacccctgct gagagatgtt tcatgtggtt aggtggcttc   600
143 cgatcatctg aggttcttaa gttactggca ggtcacctag agcctcttac tgatcagcag   660
145 cttgttggta tatccaacct gcagcagtcc tcccaacaag ctgaagatgc tctttctcaa   720
147 gggatggaag cattacaaca gtcgcttgca gaaactctag catctggatc cctgggccct   780
149 gctggacctt ctggcaatgt tgcaaattac atgggacaaa tggcgatggc tatgggaaaa   840
151 cttggcaccc tagagaactt tctacgacag gctgataatc tacggctgca aacacttcaa   900
153 caaatgcaac gcatcttaac cacccgacaa tccgcacgag ccctacttgc aataagcgac   960
155 tacttctctc ggctgcgtgc tttgagttct ctttggcttg cccgtccaag ggaataaatt  1020
157 caattaactc ataaatagga ttttttttgt actgtctcta gtatgtcaat tagtttcttc  1080
159 acattgctca tgtgttgatg ggatatttgg atctaagatc ttatgaatgg atgacatgta  1140
161 tgtgttcaag tgaaaaaaaa aaa                                          1163
164 <210> SEQ ID NO: 4
165 <211> LENGTH: 1024
166 <212> TYPE: DNA
167 <213> ORGANISM: Arabidopsis thaliana
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RAW SEQUENCE LISTING   DATE: 11/02/2005
PATENT APPLICATION: US/10/553,884   TIME: 09:44:23

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\11022005\J553884.raw**

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170 <220> FEATURE:
171 <221> NAME/KEY: misc_feature
172 <222> LOCATION: (416)..(417)
173 <223> OTHER INFORMATION: n is a, c, g, or t
175 <400> SEQUENCE: 4
176 tggaaagaac cttttttggg gttgggggt tcaaacctgg aatggccttt caggttgtga    60
178 acgcagcttt ggaggttttg tcagaacagc aaaaggagag gctgagtttg ctcaaccaag   120
180 agaccaaggt gaaggagaga gccctcaatg atgagttggc caagcttcat gagagtgtgg   180
182 cagctccacc gctggtggac atggccagga gccatggtag ggtgtgtttc agtaggtcct   240
184 tcatggcaga tgggggttct tccgttccaa gcactttcag atagacattg gagaatctgg   300
186 aggcaaatgc agatgctttg aggacaaaca catctttgaa gattctccag atactgagac   360
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W--> **188 cttctcagct tgtttcattc ttggctgctg tggctgagct tcagatcagg attggnnctt   420**
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190 ggggtttgga caaggatgcc ctgaatggag gccaagggtg aaagtcaatt aacgggaatt   480
192 tgaaggcttt tttatgtaag ttgctttcag tttttgtctt ttttgggaac tggtttgagt   540
194 tggaggatgg atacataggc atttagcctt ttagcatcat gatgatggat ggtgtgcatt   600
196 gggcagtgag catgttcact gcctgtaatg ttgtttctct ctacctggtt tggtgggcat   660
198 tgaacaatga tgaacaaaac aaggccatgc aatgcatact tttatctaga ggctaaaagc   720
200 atcaatatat ttgtacctct tgagatagag gcaagtactc caggttctct ctactcaagc   780
202 agctacccca gatttcaatt ggttgctata tttaccatag taagtaggta gtagatacct   840
204 aaggattatt tattttttctt tttttttgtga tattaagaca tgttttctaa tttctagtga   900
206 agaacttgga tggatgtata ggatgtggta ccttgaaaat tacttttcaa cgtcccactc   960
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210 caca                                                             1024
213 <210> SEQ ID NO: 5
214 <211> LENGTH: 1234
215 <212> TYPE: DNA
216 <213> ORGANISM: Arabidopsis thaliana
218 <400> SEQUENCE: 5
219 ggcgcatgct gcaggtgcaa ctgagcaatt gcagacctgg gagttgcttc cattatcttg    60
221 cacacactac taggtggcta gccatcgagc acaatcatgt ccaagctggc aagtagtgct   120
223 tcataccttg tctccacctc gccaaacggt tctccttccc gtgaaacgtt tcgcaaattc   180
225 ttcgagtgct ggcttggaga gcaaaacaat tatctcgaac aactcatctc aacctgtaaa   240
227 gattatgatc acaacagaaa aaactccccc cagtcatctc aggcaaccct ccagcctctt   300
229 atcaaccgtg ttcttgagca ttatgaacat tattatagat ccaagtcaag atgggccaaa   360
231 gatgatgtgt tatccatgct ctctccttca tggaccagca ctctcgagca tgcttttctt   420
233 tggatcggtg ggtggcggcc ctctgtggct tttcacttgc tctactcaaa gtcaggtcat   480
235 cagtttgagg ctcaactcca tgagttgatt tgtgggttgg ggacaggtga cttgggtgac   540
237 ctttcagcta gtcaactcac ccgagttgat cagttacaga ggaagactgt cagggaagag   600
239 aacgagctga ctgagaagct tgcaaagcaa caagaaactg tagcagactc gtctatggtg   660
241 gagttagcac atgaggtgac tgagttgttg aggagcgaga acacgggtga tgaagtggag   720
243 gaagagcgag ttgagtcaac tctggcacct aaaaaggatg gattgcagga aatcttgcag   780
245 atggctgatg atctacggct gagaactatc aaaggtgtta tcgagatttt gactccaatc   840
247 caagccgttc atttcttgat tgcagctgct gagttgcact tgcgccttca tgactggggc   900
249 aagaagggtg attgggcacg ccgcgtccac cactgatatg cgatttatta ggggataatc   960
251 atccatgaat tacacccata ttcgctgttc tgttgacata attaagaaat ggggagactg  1020
253 attttggttt tagaggcagg ataagcaaga tacgcagtaa tgtttaatta tattttcaga  1080
255 ttgaatctat ctatgtttac tatgtattat ccatcaggtg ctttgagtcc tcaagcactg  1140
257 gcattttagt ttaatatatg tattatgtat gatgttgcca gttaatttct ccaacttggc  1200
259 tttggctata attgaagtat tttgaaagat tgaa                             1234
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RAW SEQUENCE LISTING   DATE: 11/02/2005
PATENT APPLICATION: US/10/553,884   TIME: 09:44:23

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\11022005\J553884.raw**

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262 <210> SEQ ID NO: 6
263 <211> LENGTH: 1083
264 <212> TYPE: DNA
265 <213> ORGANISM: Arabidopsis thaliana
267 <400> SEQUENCE: 6
268 gatagtctct atttatattg tagatatata aaccaactct ccatgatgag tactagcaaa    60
270 aatgggctag aaaatggcaa atcattccac aagttttttt gaatcatggc tcgttaaaca   120
272 aaatcaagat ttggatcagc ttgtacgtgc ctcaaaagac gacgacaaca acaacaagaa   180
274 caacaatgac atgatgttgt catctttaat tcatagtgtg gtgaaacatt atgaagaata   240
276 ttatagagag aaatcacgat acgctattag tgatatttta ggcatgttgc acccctcatg   300
278 gttaagtaat cttgaagatg cattttatg gattggtgga tggagaccta gtatggcttt   360
280 tcatttgtta tactcaaaat caggtataca acttgaagct aatcttcatg agttaattag   420
282 aggatttaac acaaaagatt taggaaattt aagtggtaat caacttgtat taattgatga   480
284 gttacaacat aagacaataa gtgaagaaag aaagctaagt gaaaatttag ctaaagttca   540
286 agaaacttta gctgatgcat caatggttga attatcacat gttgtgagtg aattaatgag   600
288 ggatgatcaa ttagttgtta atgatgaaga ggaaaaaatt aagaaaaata ttagtaaaaa   660
290 agaggaaagt ttattggatt tgttgaaaaa agctgatgat ttaaggttaa gtacaattaa   720
292 agagattttg agaatttga catcaacaca aggtgttcat ttcttgattg ctgctgctga   780
294 acttcatttg aggattcatg aatggggtaa gaagaaagat gctgctgttt ctcatcataa   840
296 atggtcatgt caaacaataa acgacgagcc aaattctgag gggacgtctg tcagaaatta   900
298 gtcattcaga tctattagaa tgatacagag aagatcaacg tggtacttaa tagttatgaa   960
300 tattcttaat tactacttaa ggagctagcc aaatgttatt agtattaatt actaggtaga  1020
302 ttgtaatagg ataaagttct tttaagggct ttttttttg tttcattttt gtttatgtag  1080
304 tga                                                              1083
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 11/02/2005
PATENT APPLICATION: US/10/553,884   TIME: 09:44:24

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\11022005\J553884.raw**

<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 416,417

VERIFICATION SUMMARY   DATE: 11/02/2005
PATENT APPLICATION: **US/10/553,884**   TIME: 09:44:24

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\11022005\J553884.raw**

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:360